

Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 6

Complete If Known

Application Number	10/016,604
Filing Date	December 7, 2001
First Named Inventor	Pablo D. Garcia
Group Art Unit	1645
Examiner Name	TBA
Attorney Docket Number	002441.00008

RECEIVED

SEP 22 2003

RECEIVED

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
MW		4,683,195		Mullis et al	07-28-1987	
		4,683,202		Mullis et al	07-28-1987	
		4,777,127		Suni et al	10-11-1988	
		4,816,567		Cabilly et al	03-28-1989	
		4,959,314		Mark et al	09-25-1990	
		5,010,175		Rutter et al	04-23-1991	
		5,124,246		Urdea et al	06-23-1992	
		5,149,655		McCabe et al	09-22-1992	
		5,206,152		Sukhatme	04-27-1993	
		5,219,740		Miller et al	06-15-1993	
		5,422,120		Kim	06-06-1995	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ₆
		Office 3	Number ⁴	Kind Code ⁵ (if known)				
MW			EP 0345242	/	Gheysen et al	12-06-1989		
			EP 0505012	/	Mullis	09-23-1992		
			EP 0509112	/	Mullis et al	10-21-1992		
			EP 0524968	/	Kim	02-03-1993		
			EP 0689454	/	Hauser et al	01-03-1996		
			EP 0721016	/	Lockhart et al	07-10-1996		
			EP 0735898	/	Momin et al	03-10-1999		
			EP 0761231	/	Prieels et al	01-12-2000		
			EP 0785280	/	Sapolsky et al	04-02-2003		
			EP 0799897	/	Morris et al	10-08-1997		
			EP 0835318	/	Cabezon Silva et al	01-16-1997		
			EP 1074617	/	Ota et al	02-07-2001		
			GB 2220221	/	Rogers et al	01-04-1990		
			GB 2200651	/	Al-Sumidaie	08-10-1988		
			WO 90/07936	/	Goldsmith et	07-26-1998		
			WO 90/11092	/	Felgner et al	10-04-1990		
			WO 90/14837	/	Van Nest et al	12-13-1990		
			WO 91/02805	/	Gruber et al	03-07-1991		
			WO 91/10741	/	Kucherlapati et al	07-25-1991		
			WO 91/14445	/	Kim	10-03-1991		
			WO 91/17823	/	Zuckerman et al	11-28-1991		
			WO 92/02526	/	Urdea et al	02-20-1992		
			WO 92/11033	/	Weichselbaum	07-09-1992		

Examiner
Signature

[Handwritten Signature]

Date
Considered

2/24/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 2 of 6

Complete if Known

Application Number	10/016,604
Filing Date	December 7, 2001
First Named Inventor	Pablo D. Garcia
Group Art Unit	1645
Examiner Name	TBA
Attorney Docket Number	002441.00008

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. 1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code 2 (if known)			
h		5,445,934		Fodor et al	08-29-1995	
		5,530,101		Queen et al	06-25-1996	
		5,556,752		Lockhart et al	09/17/1996	
		5,578,832		Trulson et al	11/26/1996	
		5,580,859		Felgner et al	12/03/1996	
		5,593,839		Hubbell et al	01/14/1997	
		5,599,695		Pease et al	02/04/1997	
		5,631,734		Stern et al	05/20/1997	
		5,707,829		Jacobs et al	01/13/1998	
		5,800,992		Fodor et al	09/01/1998	
		5,807,522		Brown et al	09/15/1998	
		5,814,482		Dubensky Jr. et al	09/29/1998	

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. 1	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T _s
		Office	Number 4	Kind Code 5 (if known)				
h			WO 93/03769		Crystal	03-04-1993		
			WO 93/10218		Anderson et al	05-27-1993		
			WO 93/11230		Holmes et al	06-10-1993		
			WO 93/13202		Domenighini et al	07-08-1993		
			WO 93/14778		Rhodes et al	08-05-1993		
			WO 93/19191		Haddada et al	09-30-1993		
			WO 93/25234		Kan	12-23-1993		
			WO 93/25698		Anderson et al	02-23-1993		
			WO 94/02602		Kucheraipati	02-03-1994		
			WO 94/03622		McClure et al	02-17-1994		
			WO 94/12649		Gregory et al	06-09-1994		
			WO 94/23697		Kim et al	10-27-1994		
			WO 94/28938		Wilson	12-22-1994		
			WO 95/00655		Graham et al	01-05-1995		
			WO 95/07994		Dubensky et al	03-23-1995		
			WO 95/11984		Gregory et al	05-04-1995		
			WO 95/13796		Sankaram et al	05-26-1995		
			WO 95/22058		Stern et al	08-17-1995		
			WO 95/30763		Respass	11-16-1995		
			WO 95/35505		Shalon et al	12-28-1995		
			WO 96/17072		Dubensky et al	06-06-1996		
			WO 96/30498		Jakobovits et al	10-03-1996		
			WO 96/33735		Kucheraipati	10-31-1996		

Examiner
Signature

Date
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Please type a plus sign (+) inside this box → ☐ +

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 3 Of 6

Complete if Known

Application Number	10/016,604
Filing Date	December 7, 2001
First Named Inventor	Pablo D. Garcia
Group Art Unit	1645
Examiner Name	TBA
Attorney Docket Number	002441.00008

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
WJ		5,858,723		Mueller-Lantzsch	01/12/1999	
WJ		5,939,598		Kucherlapati et al	8/17/1999	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T _e
		Office 3	Number ⁴	Kind Code ⁵ (if known)				
WJ			WO 97/02357		Anderson et al	01-23-1997		
			WO 97/27317		Lockhart et al	07-31-1997		
			WO 97/29212		Gingeraš et al	08-14-1997		
			WO 97/42338		Respass et al	11-13-1997		
			WO 98/24893		Jakobovits et al	06-11-1998		
			WO 98/57659		Boon et al	12-23-1998		
			WO 99/11241		Garcon et al	03-11-1999		
			WO 99/52549		Friede et al	10-21-1999		
			WO 00/23105		Garcon	04-27-2000		
			WO 00/62800		Friede et al	10-26-2000		
			WO 00/07621		Friede et al	02-17-2000		
			WO 00/73801		Obata	12-07-2000		
			WO 01/21152		Friede	03-29-2001		
			WO 01/21207		Friede	03-29-2001		
			WO 01/42467		Schlegel	06-14-2001		
			WO 01/51623		Lanes et al	07-19-2001		
			WO 01/57270		Penn et al	08-09-2001		
			WO 01/57272		Penn et al	08-09-2001		
			WO 01/57274		Penn et al	08-09-2001		
			WO 01/57275		Penn et al	08-09-2001		
			WO 01/57276		Penn et al	08-09-2001		
			WO 01/57277		Penn et al	08-09-2001		
			WO 01/57278		Penn et al	08-09-2001		
			WO 01/57182		Rosen et al	08-09-2001		
			WO 01/60860		Schlegel et al	08-23-2001		
			WO 01/73032		Yu et al	10-04-2001		
			WO 01/75067		Drmanac et al	10-11-2001		

Examiner
Signature

[Signature]

Date
Considered

2/24/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)



Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 5 of 6

Complete if Known

Application Number	10/016,604
Filing Date	December 7, 2004
First Named Inventor	Pablo D. Garcia
Group Art Unit	1645
Examiner Name	TBA
Attorney Docket Number	002441.00008

RECEIVED

SEP 22 2003

RECEIVED
SEP 22 2003

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
W		Mayer et al, XP002239083, (1999) Nature Genetics 21(3):257-258	
		Huang et al, XP009009633, (1998) Oncogene 16(18):2311-19	
		Löwer et al, XP002233322, (1996) Proc. Natl. Sci. USA 93(11):5177-84	
		Magin et al, XP002239089, (2000) Virology 274(1):11-16	
		Smith et al, XP009009588, (2001) American Journal of Human Genetics 69(4) Supplement:275	
		Smith et al, XP009009589, (2001) Journal Of Urology 165(5) Supplement:136-7	
		Wang-Johanning et al (2001) Clinical Cancer Research 7:1553-60	
		Mariani-Costantini et al (1989) Journal of Virology 63(11) 4982-85	
		Löwer et al (1996) Proc. Natl. Acad. Sci USA 93:5177-84	
		Ono et al (1986) Journal of Virology 60(2):589-98	
		Ono et al (1986) Journal of Virology 58(3):937-44	
		Ono et al (1987) Journal of Virology 61(6):2059-62	
		Shih et al (1991) Virology 182:495-502	
		Löwer et al (1993) Proc. Natl. Acad. Sci USA 90:4480-84	
		Boller et al (1993) Virology, 196:349-353	
		Barbulescu et al (1999) Current Biology 9:861-868	
		Mueller-Lantzsch et al (1993) Aids Research and Human Retroviruses 9(4):343-50	

Examiner
Signature

Date
Considered

2/24/04

¹ EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Institute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

4

of

6

Complete If Known

Application Number	10/016,604
Filing Date	December 7, 2004
First Named Inventor	Pablo D. Garcia
Group Art Unit	1645
Examiner Name	TBA
Attorney Docket Number	002441.00008

RECEIVED

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

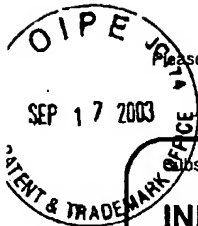
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
W		Magin-Lachmann (2001) J. Virol. 75(21):10359-71	
		McSharry (1999) Antiviral Res 43(1):1-21	
		Schommer et al (1996) J Gen Virol 77:375-379	
		Boese et al (2001) FEBS Lett 493(2-3):117-21	
		Larsson (1989) Current Topics in Microbiology and Immunology 148:115 (1989)	
		Tönjes et al (1996) J. Aids Hum. Retrovir. 13 (Suppl 1): S261-S267	
		Kuhelj et al (2001) J Biol Chem 276(20):16674-82	
		Johnston et al (2001) Ann Neurol 50(4):434:42	
		Hanahan et al (2000) Cell 100:57-70	
		Genbank accession number AB047240 (2003)	
		Sugimoto et al, Genomics (March 2001) 72(2):137-44	
		Andersson et al (1999) J. Gen. Virol. 80:255-260	
		Tönjes et al, XP002238923, (1999) J. Virol. 73(11):9187:9195	
		Barbulescu et al, XP000953273, (1999) Current Biology, Current Science 9:861-68	
		Mayer et al, XP009009741, (1997) Cytogenetics and Cell Genetics 79(1-2):157-61	

Examiner
Signature

Date
Considered

2/24/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Please type a plus sign (+) inside this box



PTO/SB/08A (08-00)



Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 6 of 6

Complete if Known

Application Number	10/016,604
Filing Date	December 7, 2004
First Named Inventor	Pablo D. Garcia
Group Art Unit	1645
Examiner Name	TBA
Attorney Docket Number	002441.00008

RECEIVED

SEP 22 2003

TECH CENTER 1600/2900

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
W		Löwer et al (1993) Virology 192:501-11	
		Wang-Johanning et al, Proceedings of the American Association for Cancer Research 40:424 (1999)	
		Herbst et al (1996) American Journal of Pathology 149(5):1727-35	
		Löwer et al (1995) Journal of Virology 69(1):141-9	
		Mayer et al (1999) Nature Genetics 21:257-258	
		Magin et al (1999) Journal of Virology 73(11):9496-9507	
		Boese et al (2000) Oncogene 19:4328-36	
		Berkhout et al (1999) Journal of Virology 73(3):2365-75	
		Sverdlo (2000) BioEssays 22:161-71	
		Seifarth et al (1998) Journal of Virology 72(10):8384-91	
		Zsiros et al, (1998) Journal of General Virology 79:61-70	
		Medstrand et al (1993) Journal of Virology 67(11):6778-87	
		Medstrand et al, (1998) 72(12):9782-87	
		Tönjes et al (1999) Journal of Virology 73(11):9187-195	
		Urnovitz et al (1996) Clinical Microbiology Reviews 9(1):72-99	
		Yang et al (1999) Proc. Natl. Acad. Sci. USA 96(23):13404-08	
W			

Examiner
Signature

Date
Considered

2/24/04

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.